1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite(R) 3685 Resinaid(TM) Molding Compound Medium Brown Low Viscosity
Item No.: 36970
Product type: Molding Compound
Company address:
Henkel Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067
Issue date: 09/26/2006

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>%</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aliphatic urethane acrylate</td>
<td>30-60</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Polyglycol dimethacrylate</td>
<td>10-30</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Hydroxyalkyl methacrylate 868-77-9</td>
<td>10-30</td>
<td>None</td>
<td>None</td>
<td>3 ppm (ceiling)</td>
</tr>
<tr>
<td>Hydroxyalkyl methacrylate 27813-02-1</td>
<td>10-30</td>
<td>None</td>
<td>None</td>
<td>1 ppm TWA; 3 ppm STEL</td>
</tr>
<tr>
<td>Diacylate ester</td>
<td>5-10</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Photoinitiator</td>
<td>1-5</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

**WARNING:**
- CAUSES EYE IRRITATION.
- MAY CAUSE ALLERGIC SKIN REACTION.
- MAY CAUSE RESPIRATORY TRACT IRRITATION.
- MAY CAUSE SKIN IRRITATION.
- MAY BE HARMFUL IF SWALLOWED.

**HMIS:**
- HEALTH: 2*
- FLAMMABILITY: 1
- PHYSICAL HAZARD: 1
- Personal Protection: See Section 8

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects:

Product name: Loctite(R) 3685 Resinaid(TM) Molding Compound Medium Brown Low Viscosity
Inhalation: May cause respiratory tract irritation.
Skin contact: May cause allergic skin reaction. May cause skin irritation with discomfort or rash. Severe eye irritation. Excess tearing. Pain and discomfort. May be harmful if swallowed.
Eye contact: Severe eye irritation. Excess tearing. Pain and discomfort.
Ingestion: May be harmful if swallowed.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

See Section 11 for additional toxicological information.

### 4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If symptoms develop and persist, get medical attention.
Skin contact: Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if symptoms occur.
Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Obtain medical attention.

### 5. FIRE-FIGHTING MEASURES

Flash point: Greater than 93.3°C (200°F) Pensky Martens closed cup
Autoignition temperature: Not available
Flammable/Explosive limits-lower %: Not available
Flammable/Explosive limits-upper %: Not available
Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.
Special fire fighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Unusual fire or explosion hazards: None

### 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Prevent product from entering drains or open waters.
Clean-up methods: Ensure adequate ventilation. Soak up with inert absorbent. Store in a closed container until ready for disposal.

Item No.: 36970
Product name: Loctite(R) 3685 Resinaid(TM) Molding Compound Medium Brown Low Viscosity
7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling.

Storage: Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

Incompatible products: Refer to Section 10.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Use local exhaust ventilation if the potential for airborne exposure exists.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Skin protection: Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

Eye/face protection: Chemical splash goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Color: Brown
Odor: Slight, Acrylic
Vapor pressure: <0.1 kPa at 20 ºC (68 ºF)
pH: Not applicable
Boiling point/range: 260ºC (500ºF)
Melting point/range: Not available
Specific gravity: 1.1343
Vapor density: Not available
Evaporation rate: Not available
Solubility in water: Slightly soluble
Partition coefficient (n-octanol/water): Not available
VOC content: <4%; <42 grams/liter

10. STABILITY AND REACTIVITY

Stability: Stable.
Hazardous polymerization: May occur.
Conditions to avoid: See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Item No.: 36970
Product name: Loctite(R) 3685 Resinaid(TM) Molding Compound Medium Brown Low Viscosity
<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>NTP Carcinogen</th>
<th>IARC Carcinogen</th>
<th>OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aliphatic urethane acrylate UNKOWN</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Polyglycol dimethacrylate Proprietary</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Hydroxyalkyl methacrylate 868-77-9</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Hydroxyalkyl methacrylate 27813-02-1</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Diacrylate ester Proprietary</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Photoinitiator Proprietary</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**Literature Referenced Target Organ & Other Health Effects**

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Health Effects/Target Organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aliphatic urethane acrylate</td>
<td>No data</td>
</tr>
<tr>
<td>Polyglycol dimethacrylate Proprietary</td>
<td>Allergen, Irritant</td>
</tr>
<tr>
<td>Hydroxyalkyl methacrylate 868-77-9</td>
<td>Allergen, Irritant</td>
</tr>
<tr>
<td>Hydroxyalkyl methacrylate 27813-02-1</td>
<td>Allergen, Irritant</td>
</tr>
<tr>
<td>Diacrylate ester Proprietary</td>
<td>Allergen, Irritant, Eyes</td>
</tr>
<tr>
<td>Photoinitiator Proprietary</td>
<td>No Target Organs</td>
</tr>
</tbody>
</table>

**12. ECOLOGICAL INFORMATION**

Ecological information: Not available

**13. DISPOSAL CONSIDERATIONS**

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

EPA hazardous waste number: Not a RCRA hazardous waste.

**14. TRANSPORT INFORMATION**

**U.S. Department of Transportation Ground (49 CFR):**

- Proper shipping name: Unrestricted
- Hazard class or division: None
- Identification number: None
- Packing group: None

**International Air Transportation (ICAO/IATA):**

- Proper shipping name: Unrestricted
- Hazard class or division: None
- Identification number: None
- Packing group: None

**WaterTransportation (IMO/IMDG):**

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Product name</th>
<th>Low Viscosity</th>
</tr>
</thead>
<tbody>
<tr>
<td>36970</td>
<td>Loctite(R) 3685 Resinaid(TM) Molding Compound Medium Brown</td>
<td></td>
</tr>
</tbody>
</table>
Proper shipping name: Unrestricted
Hazard class or division: None
Identification number: None
Packing group: None
Exceptions: None
Marine pollutant: None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification: 4-Methoxyphenol (150-76-5).

CERCLA/SARA Section 302 EHS: None above reporting de minimus.
CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard
CERCLA/SARA 313: None above reporting de minimus.

California Proposition 65: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status: Contains one or more components listed on the Non-Domestic Substances list.

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 15

Prepared by: Kyra Kozak Woods, Product Safety and Regulatory Affairs Specialist

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